What is claimed is:

- 1. A method of forming a ferroelectric substance thin film comprising:
- forming a seed layer including ultra-fine particle powder containing an element constituting a ferroelectric substance thin film on a surface of a substrate; and

forming the ferroelectric substance thin film on the seed layer.

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- 2. The method of forming a ferroelectric substance thin film as claimed in claim 1, wherein forming the seed layer includes:
- applying solution containing an element constituting the

 15 ferroelectric substance thin film to the surface of the substrate; and

drying and baking the solution applied to the substrate.

- 3. The method of forming a ferroelectric substance thin filmaccording to claim 2, wherein forming the ferroelectric substance thin film includes annealing the seed layer for crystallization.
- 4. A method of forming a ferroelectric substance thin25 film including:

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applying a ferroelectric substance thin film applying liquid including ultra-fine particle powder containing at least one kind of elements constituting the ferroelectric substance thin film to a surface of a substrate; and

baking the ferroelectric substance thin film applying liquid applied to the surface of substrate.

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- 5. The method of forming a ferroelectric substance thin film according to claim 4, further comprising annealing the baked ferroelectric substance thin film applying liquid for crystallization.
- 6. A method of forming a ferroelectric substance memory including an FET of an MFMIS structure, said method comprising:

forming a gate insulating film on a semiconductor substrate and between source-drain regions;

forming a floating gate on the gate insulating film;

forming a ferroelectric substance layer on the floating

20 gate; and

forming a control gate on the ferroelectric substance layer,

wherein forming the ferroelectric substance layer comprises:

25 forming a seed layer including an ultra-fine particle

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powder containing an element constituting a ferroelectric substance thin film on a surface of the floating gate; and

forming the ferroelectric substance thin film on the seed layer.

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7. A method of forming a ferroelectric substance memory including an FET of an MFMIS structure, said method comprising:

forming a gate insulating film on the surface of the semiconductor substrate and between a source-drain regions;

forming a floating gate on the gate insulating film;

forming a ferroelectric substance layer on the floating gate; and

forming a control gate on the ferroelectric substance 15 layer,

wherein forming the ferroelectric substance layer comprises:

applying a ferroelectric substance thin film applying liquid including ultra-fine particle powder containing at least one kind of elements constituting a ferroelectric substance thin film to a surface of the floating gate; and

baking the ferroelectric substance thin film applying liquid applied to the surface of the floating gate.

25 8. A method of forming a ferroelectric substance

memory comprising:

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forming an FET including a gate electrode formed on a surface of a semiconductor substrate between source-drain regions formed on surface of the semiconductor substrate through a gate insulating film; and

forming a ferroelectric substance capacitor connected with one of the source-drain regions of the FET through a storage node contact,

wherein forming the ferroelectric substance capacitor 10 comprises:

forming a first electrode; a process

applying ferroelectric substance thin film applying liquid including ultra-fine particle powder containing at least one kind of elements constituting the ferroelectric substance thin film to the surface of the first electrode;

form a ferroelectric substance thin film by baking ferroelectric substance thin film applying liquid applied to the surface of the first electrode; and

forming a second electrode on the ferroelectric substance 20 thin film.

9. A method of forming a ferroelectric substance memory comprising:

forming an FET including a gate electrode formed on a 25 surface of a semiconductor substrate between source-drain

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regions formed on a surface of the semiconductor substrate through a gate insulating film; and

forming a ferroelectric substance capacitor connect with one of the source-drain regions of the FET through a storage node contact,

wherein forming the ferroelectric substance capacitor comprises:

forming a first electrode;

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forming a seed layer including ultra-fine particle powder

10 containing an element constituting a ferroelectric substance
thin film on a surface of the first electrode; and

forming the ferroelectric substance thin film on the seed layer.